



SEQUENCE LISTING

<110> Ovita Limited

<120> Novel Promoter Sequence of Myostatin

<130> JC220796/003

<140> US 09/743,312

<141> 1999-07-07

<150> NZ330902

<151> 1998-07-07

<160> 7

<170> PatentIn version 3.1

<210> 1

<211> 10492

<212> DNA

<213> Bovine

<400> 1
gaattcttct atggctatca ccatgtccaa aacactacct gagtaaagaa ggagtcattt 60
tttttttaag ggttttaaaaa attttaaaaat ttttaaatta aattttaaaat tgaaatctaa 120
aaaaatttta agaaaaattt tttttaatct gcagaaacat actctgtatt gagtctatgg 180
ttaccaaaga tccccccaga acaaaacccc aagaattgca agattttctc ttgggaagtg 240
tttgtttact ggaaggctta ttaactcaat aataaggag agtaaagact tcaaaactaa 300
agatctgttt ttgtcagttc aatctatatt gtcactctgct ctggaaaccc tgagcttggt 360
ctaaagtaaa ctgaactatc atgaagaaaa tcagccatca aaatagtgaa aacgaacctc 420
ttacactcag ttttttctca tttgtaaatt taaaaaattt aacttcatta agtctgggga 480
ccaatgtata gctgcaagca ggaattttat gccttcttaa tccagagagg tgggcaatgg 540
tgtgggttta gaccagaagt aaggatgtgg gtgcagcaaa tatgacagcc caactgctgc 600
tgctgctgct aagtcacttc agtcgtgtcc gactctgtgt gacccagag acggcagccc 660

accaggctcc	cccgtccctg	ggatttctcca	ggcaagaaca	ctggagtggg	ttgccatttc	720
cttctccaat	gcatgaaagt	gaaaagtga	agtgaagtcg	ctcagtcgtg	tcggaccctc	780
agtgacccca	tggactgcag	cctaccaggc	ttctccgtcc	atgggatttt	ccaggcaaga	840
gtactggagt	ggggtgccat	tgccttctcc	atgacagccc	aactagagac	tgctataact	900
tatatcagag	aatctgaaac	tccctacagg	ctatcttgct	atatgtgcat	tcaacatgaa	960
caaaaagaaa	attcaagtcc	agtaaaaagg	gctaaaatag	tgaatcacag	acttttgcca	1020
aacaacagtc	aatgatttgg	gcaaaggact	taagtagcta	tgcttatttg	ctattagtag	1080
aataaagaaa	tgtttgagcc	tggttctcaa	tgcttgaata	ataagattcc	ttttcaaggga	1140
aaaacaattt	ttttgagaac	tcatagataa	aagtcaaadc	tatcacttta	gatgtcactt	1200
gaagccaact	tgattatagt	aaacaaattc	agctgtaaac	atTTTTttat	aacactgtag	1260
acactgtatt	tttatacact	gtataaatga	agacactgaa	gatgtaaagt	ggtgacctgg	1320
atgatccaga	atatgcaata	tgacacaaaa	actaagtttt	ttaaatagata	caaatagaact	1380
tacttacaaa	agggaaatag	agtcacagat	gtagaaaaca	tacagttacc	tagggggacg	1440
gggggagggg	aaactgggag	ataggaattg	acacatacac	tctactatat	atacactagg	1500
taactaatat	gaacctactg	tatagcgcac	agaactctac	ccaatactct	gtaatgacat	1560
ttatgggaat	agaatccaaa	aagagcagat	atgtgtatat	gtataaactg	attcacaccc	1620
cttgccctgc	ctaaacacac	acagacacac	acagacacat	ccattttgag	atttctttcc	1680
tcctcttttg	ctacttttga	ctcagtttga	cctagatagg	acctgtgctg	ggtaagggct	1740
ttggcagtct	taagtagtgt	cagagcaagc	acagtcactc	cctagcaagg	tcttattact	1800
agctacagag	tctctctgtg	cagtcataga	tcactgagtg	caaaagtcca	gtgcaatggt	1860
tgagtcccat	gcatgctctc	acagaactga	gagaggaggc	aaggacacag	gaccctccag	1920
tgctgggact	ctctactggg	gtgagcaaga	gggaacccaa	tagaaatgct	gcgaaccaca	1980
gagccactca	gaaagcctgt	aaatataaac	ataacaacac	attatgaata	tataagtata	2040
agtataccta	ccaaaaaatc	agaaagttga	acttttttgt	attcaaggga	acagtcattc	2100
atttatcggt	tcagttatca	gtaaacacat	ttgggaactg	taaaaatcta	atcagttcag	2160
ttcagttcag	tcgctcagtc	gtgtctcttt	gcgactccat	gaatcgagc	acgccaggcc	2220
tcctgtctta	tcaccaactc	ccggcggtta	ctcagactta	cgtccatcga	gtcagtgatg	2280
ccatccagcc	atctcatcct	ctgtcgtccc	cttctcctcc	tgccccaat	ccctcccagc	2340
atcagagtct	tttccaatga	gtcaactctt	ctcacgaggt	ggccaaagta	ccaagtcttt	2400
gagtctagtc	tcttttttca	atggagaaga	agaggaaacc	aaattataac	ttaattttta	2460
ttctttgtat	tacaagtgtg	taattaatac	actggagttt	ccatttcaga	aaggagaag	2520
agaaatcaca	ttttgcagct	ttcctgaact	aatacaaaga	aatgcagaag	ttttgttaac	2580
tgggatatta	ttatgacacg	ttgccataat	atgaatgtca	tcatctcaag	actgacctga	2640
aaaccaaact	aaaaaaaaaa	agagagagag	agagagagag	agagaaaaaa	aagaaaaccc	2700
tccagaccag	atttcagtct	accacttgag	ctgacaaaca	ttggccaaat	gtcctctaca	2760

gaacctgtaa	gtagtagtt	ggtaattata	aaacaataaa	gtatatattt	ctgctcctgg	2820
caataattat	gtatcagtta	aaaagtatac	attgtctaaa	aatcaccat	atttgatgtc	2880
tcattaatac	aaagttacaa	atattaagat	gagaggactt	aaagttagat	gggaaaatat	2940
tcaattgaag	cagtataaaa	tgcattactc	tggggcaaa	gtgtggtctg	agatccctgg	3000
agtgaagacc	cttttagaca	atctgtggag	taagaactgt	tttcataaca	aagctaagat	3060
ttccttgcta	ttctcatttt	ctcttacgta	tatagtcgag	ttttccagaa	gttccatggt	3120
atgtaacatc	atcattactc	tgtcagcaaa	tagaatacat	gtttgcatat	gtctatatct	3180
taacattttc	catttttaat	ttataattca	ttaaatattg	atagatatga	cccacataaa	3240
caaaagcttt	tcaggatcct	gaataacttt	tcagagtaaa	ggaatcttga	gacccaaaagg	3300
tttgagaatt	actgttttag	gggatacacc	tcaagtgaaa	gagcacgcct	catcacattt	3360
ccactctata	tggagaagtc	tagaagattg	aacctataat	tgaagagtgc	aggctttatg	3420
aagacagtga	ctgtttctgt	ctgctttctc	ctcagaattt	agcatgatgc	caggcacata	3480
atttgttggt	gttcagctgc	taagtcattc	ctgacttttt	gcaaccccat	gaactgcatg	3540
caacatgcca	ggtttctctg	ctttcactat	ctcctggagt	ttgctccaac	tcattgtccat	3600
tgagtcactg	ataccatcca	acgatctcat	cctctataag	acacattata	gacattagaa	3660
tattttcata	aaataataag	tgaattaata	cagctgaaac	tcaaacagca	taggggttac	3720
aagtaccaac	tcgctgcca	gttgaaaatc	cacataataat	cttaagggtca	gccttgagata	3780
catgcatatc	caagggtccc	catctgagga	ttcaaccaac	ctcagatagt	gtagtactgc	3840
agtacacatt	tagtgaaaaa	tgtgcatata	agtggaccca	tgcagggtcaa	acctgctgtt	3900
tccaaggggc	cacagtacac	acacacatgc	atacatgcat	ctctaaatga	aagctttgccc	3960
atctgactta	ctcaagggtca	cataaaacgt	cagcgagaaa	cccagaacta	tattccagat	4020
ctctgttcct	atactgttac	tccctgagtc	aagggtactt	ttgtttttgt	tcatttttat	4080
tctgtaattc	attgagatca	cagataatca	gatgttgcca	ctgtaggatg	gcagcctctc	4140
atgctgttat	gtgaattgag	cactatccag	tttgtttctg	gctttaagtg	taatcagaac	4200
agtgttatat	caaaggggcta	tcatacaca	gaaatggcaa	gagtgatcag	ataaaatgca	4260
tctttctctc	ttttcccaca	acagactcga	atttttcatg	attcatcctt	attctaattc	4320
ttcagttcag	ttcagttcag	tccttcagtc	atgtccaact	ctttgccacc	ccatgaatct	4380
cagcaagcca	ggcctccctg	gtccatcacc	aactcccaga	gttcaccag	actcacgtcc	4440
atcgagtcag	tgatgccatc	tagccatctc	atcctctgtc	gtccccttct	cttctgccc	4500
ccaatccctc	ccagcatcag	agtcttttcc	aatgagtcaa	cttttcacat	gaggtggcca	4560
aagtactgga	gtttcagctt	tagcatcatt	ccttccaaag	aaatcccagg	gctgatctcc	4620
ttcagaatgg	actgggttga	tctccttgca	gtccaaggga	ctctcaagag	tcttctccaa	4680
caccacagtt	caaaagcatc	aattcttcgg	cgctcagctt	tcttcacagt	ccaactctca	4740
catccataca	tgaccacagg	aaaaaccata	gccttgacta	gatggacctt	tggtggcaaa	4800

gtaatgtctc	tgcttttcaa	tatgctatct	aggttgggtca	taactttcct	tccaaggagt	4860
aagcatcttt	taatttcatg	gctgcagtca	ccatttgtag	tgattttgga	gcccagaaaa	4920
ataaagtctt	gacactgttt	ccactgtttc	cccatcttat	ttcccatgca	gtgatgggac	4980
cggatgccat	gatcttagtt	ttctgaatgt	tgagctttaa	gccaactttt	tcaatctcct	5040
ctttcacttt	catcaagagg	cttttgagtt	cctcttcact	ttctgccata	agggtggtgt	5100
catctgcata	tctgaggtta	ttaatatattc	tcccggcaat	cttgattcca	gcttggtgctt	5160
cttccagccc	agtgtttctc	atgatgtact	ctgcatagaa	gttaaataag	cagggtgaca	5220
atatacagtc	ttgacatcct	ccttttccta	tttggaaacca	gtctgttggt	ccatgtccag	5280
ttctaactgt	tgcttcctga	cctgcataca	ggtttctcaa	gaggcaggtc	agggtggcagg	5340
tcagggtggtc	aggaacatct	ctttcagaat	ttttgacagt	ttattgtgat	ccacacagtc	5400
aaaggctttg	gcatagtcaa	taaagcagaa	atagatgttt	ttctggaact	ctcttgcttt	5460
ttcgatgata	cagcagatgt	tggcaatttg	atctctgggt	cctctgcctt	ttctaaaacc	5520
agcttgaaca	tcaggaagtt	catggttcac	gtattgctga	agcctggctt	ggagaattta	5580
gagcattact	ttactagcat	tacttttcac	aataaactgt	ggaaaattct	gaaagagatg	5640
ggcataccag	accaccggat	ctgcctcttg	agaaatttgc	atgcagggtca	ggaagcaaca	5700
attagaagtg	gacatggaac	aacagactgg	ttccaaatag	gaaaagggtgt	tcgtcaaggc	5760
tgtatatattg	caccctgttt	atttaacttc	tatgcagagt	acatcatgag	aaacgctggg	5820
ctggaagaag	cacaagctgg	aatcaagatt	tccgggagaa	atatcaataa	cctcagatat	5880
gcagatgaca	ccacccttat	ggcagaaaagt	gcagaggaac	taaaaagccc	cttgatgaaa	5940
gtgaaagtgg	agagtgaaaa	agttggctta	aatctcaaca	ttcagaaaac	gaagatcatg	6000
gcatccggtc	ccatcacttc	atgggaaata	gatggggaaa	cagtggaaac	agtgtcagac	6060
tttatttttc	tgggctccaa	aatcactaca	aatggtgact	gcagccatga	aattaaaaga	6120
tgcttactcc	ttggaaggaa	agttatgacc	aacctagata	gcatattgaa	aagcagagac	6180
attactttgc	taacaaaggt	ccatctagtc	aaggctatgg	tttttcctgt	ggtcatgtat	6240
ggatgtgaga	gttggactgt	gaagaaagct	gagtgccgaa	gaattgatgc	ttttgaactg	6300
tgggtgttga	gaagactcct	gagagtccct	tggactgcaa	ggagatccaa	ccagtccatt	6360
ctgaaggaga	tcagccctgg	gatttctttg	gaaggaatga	tgctaaagct	gaaactccag	6420
tactttggcc	acctcatgtg	aagagctgac	tcattggaaa	agactctgat	gctgggaggg	6480
attgggggca	ggaggagaag	ggggcgacag	aggatgagat	ggctggatgg	catcactgac	6540
tcaatggacg	tgagtctgtg	tgaactctgg	gagttggtga	tggacagggg	ggcctggcgt	6600
gctttgattc	atgggggtcac	aaagagtcgg	acacgactga	gcgactgata	tgtctctctc	6660
ttactagcat	gtgtctcctc	ctttttttgc	cacatcatca	aactcctggc	aaacttcaca	6720
ttaataacat	ttgggagctt	ccagaatgca	aacagtgaaa	ccattaatgt	tttttgggaa	6780
atatgcttta	tactctcaat	gttgttttga	aacgcacacc	ccctcccctg	ccgcctgggtg	6840
tttgtaagac	agttgagaga	agtttgcttg	ctaccttact	tatggttaca	caaacgtaag	6900

gccccctgag	tacaaagaag	aacaggggga	acgcaaactt	caggccctgt	gaggaggggc	6960
actggactcc	tgtgagaaga	aactgctttc	aaagaattcc	tgggagaaat	tctctatgca	7020
ctcatcctag	caacaaagtc	ctgtccgaag	ttaggcccgc	agcaccacaca	cggcagtgaa	7080
ggttcctact	gctggtgaac	cttgctgctc	cgaagccata	ggaagggtgc	aaatcccggc	7140
actggagaag	gaaaacacgt	tcttgaaatt	tcttgagtac	ctcttaattc	attcaatgct	7200
gacctccgga	gattggatag	agctgactct	cattattcac	agtgggttatg	ttctacccaa	7260
tactgccaa	catgaataag	tgattcctga	accactgccc	ctaggggaac	tacaaggtta	7320
gattccccgtc	agcctctggt	cacgtttttg	ttaaccaatc	aataaataac	cttgttttgt	7380
gtgcattttct	gttttaaaat	atctttatct	aatacgtact	gctaattctt	caacatttgg	7440
ttcacaaacca	aaaggcccta	ttaactggaa	gccctgaatg	aagcttacat	aacacacatt	7500
gtttttctat	gaggaaaaat	ttttccttca	gtcctgccac	agccttcttg	cttaaaattg	7560
tggacaaaat	atacataaca	tgaaactgac	tattatttaa	ctgattttaa	ctgtacagtt	7620
cagtggcatt	aagtacactt	accttgctgt	ggaactatga	tcaacattca	tctctagaac	7680
tttttgatct	tctcgaattg	aaaactctgc	atctattgca	cagtagcttt	ccccatcac	7740
accgcaccct	tcctccagcc	ccccggcacc	accatccttc	tttccatgac	agtcattcctg	7800
tgcctaggaa	cacagccctt	caacactacg	cttggggggc	actgtaagca	acaggatcac	7860
tccctaccgc	caccaaattgc	acacaaaaat	ataaaaagca	tggtggcata	tcgattgcaa	7920
aaaggggtgct	tgctaagtat	gagggctgaa	acaaggcaga	gaattgacta	ggttgacctc	7980
agctgggatc	ctgtgtgttg	gaagcctcaa	atcttccatt	gttctgtgca	tacgcacaaa	8040
tgcttataaa	agcactgtaa	ggattgatta	tgaagttaa	ataaatctca	gcaagacata	8100
aatgtgcaag	cacgggatcc	atgaataacg	agcactgacc	atgtggaaat	gataatcttt	8160
gtttccttta	ttccaggcag	taaggagaaa	gcgctcacag	ggctgcctta	caccatttta	8220
ctagagagct	agcctatgtc	agtcggtagc	tggcaattac	aaactgaagc	agttctagtt	8280
catgtggagg	atgaatttaa	ccataatctc	aacccccctc	gcatgaaaca	gagactaagt	8340
actcaagtac	cagttatcag	tcacttacta	tatgacaggc	actgtactca	acaatttaca	8400
tgtattattg	aattacatgc	ccccaaactc	ctatgaggaa	gctgaagggt	agagaagtat	8460
ctcattcatt	attacacagt	ggcaaaactga	gatctgaact	caggtctatc	caactccagg	8520
acctgagatc	ccaattgcta	cacaattcta	atcaagttaa	aagggaaaaa	ggatttgatt	8580
tgctcagaag	tgtatagggg	catatgttac	aattataaca	ttacaaagat	ttatatgttg	8640
aaaaataaat	ttatcaaaca	aataaaactt	tataagcctg	atctaatact	gctccgcaac	8700
aaagactatc	tgaaatcctt	cagggcatct	ggtttgtgtc	tggttttcct	taatctttaa	8760
tgatgggcaa	atctaattgca	ttatgtaagg	ccattttttc	tcaagagatg	tagatacctc	8820
ttaagaatct	gatgaaaatg	cattaacttt	tcaggctact	gagttgcatt	ttagtgcact	8880
gaggcagtaa	attagtgtac	aatgtgcgaa	agtagtgacc	taaaaataaa	atatttgata	8940

tgaaccactg	cactctcttg	gggaaaaaag	taatggatta	actctcttag	gagtccttag	9000	
cttccccaaa	agtagtagga	aaaataaatc	tcctgtggcc	tggaaacagc	ttctgtttct	9060	
tgctggctat	atttgtttag	gtttttaata	gttcatttga	ttagaccttg	tggctcccaa	9120	
agctaagggt	gagagttaga	tccctacaga	ggccacttca	atttagagaa	caaaaagccc	9180	
cattctctgc	tcccagacct	taccccaa	ccctgccagg	tgtctgccct	ccggtcaaat	9240	
gagaaactgg	caaaggaagt	actaggaggt	cgcacagtac	taggaagtag	aaaaatggac	9300	
tagcacacta	ctgagaagca	gaaaaatggg	cacccttcat	gatggtgttc	ctttcccttt	9360	
ctgtgttcac	aatgctccga	tataatttac	agagggtaga	taactacatt	tttttctttt	9420	
accactggaa	ggctgaggaa	aactttgtta	cccatcataa	aattcactat	cttctaagtc	9480	
attctatggt	attctaagat	caaatagctg	acaatatcct	ctttgtaata	aacaatgaaa	9540	
aaacacatcc	tctgagcaat	attaatctgc	aacttttagga	taggaagtaa	cttaatacta	9600	
gtcaattgaa	actgaaatac	aattttcata	tgaataaaag	atattattta	aaagtaattc	9660	
catgagcaat	ttaatattaa	agtaggattt	tcattatgtg	ttaagaattt	attcagggaa	9720	
acaagtttct	caaattatag	cagaaaatct	tttactagta	tcacagtctt	ttcatttaag	9780	
tcttcctgaa	taaatctgta	ttttctaatt	atacaagact	aaaaataatt	taatataaca	9840	
aataaaaatta	tttttacttc	aaatgcttac	ttaaatagta	taaaatcatt	ttattttctg	9900	
agggaaaagc	atatcaactt	ttaagtatg	aagtgtaaat	taagatttat	tcacttaaat	9960	
tataattttt	aaagtttcac	atataaagat	gaataagatc	taagtgtata	tgttattggt	10020	
aataaagttt	ttaatttttc	gcatgtcaca	tacagccttt	attattcata	gatttattcc	10080	
ttttaagaag	tagtcaa	aatcagctca	cccttgactg	taacaaaata	ctgtttggtg	10140	
acttgtgaca	gacaggggtt	taacctctga	cagcgagatt	cattgtggag	caagagccaa	10200	
tcacagatcc	cgacgacact	tgtctcatca	aagttggaat	ataaaaagcc	acttgggaata	10260	
cagtataaaa	gattcactgg	tgtggcaagt	tgtctctcag	actgggcagg	cattaacggt	10320	
tggcttggtg	ttactcaaaa	gcaaaagaaa	agtaaaagga	agaagtaaga	acaagggaaa	10380	
agattgtatt	gatttttaaaa	ccatgcaaaa	actgcaa	atc	tctgtttata	ttacctatt	10440
tatgctgatt	gttgctggcc	cagtggatct	gaatgagaac	agcgagcaga	ag	10492	

<210> 2

<211> 24

<212> DNA

<213> Made in the lab

<400> 2

ctgctcgctg ttctcattca gatc

24

<210> 3

<211> 23

<212> DNA

<213> Made in the lab

<400> 3

atcctcagta aacttcgcct gga

23

<210> 4

<211> 18

<212> DNA

<213> Made in the lab

<400> 4

ggctgtatgt gacatgcg

18

<210> 5

<211> 20

<212> DNA

<213> Made in the lab

<400> 5

tgaaccactg cactctcttg

20

<210> 6

<211> 32

<212> DNA

<213> Made in the lab

<400> 6

ggggtagcccc aattcctggg acaaattctc ta

32

<210> 7

<211> 30

<212> DNA

<213> Made in the lab

<400> 7

ggggtagccgg ttttaaaatc aatacaatct

30